ATTACH " EI. T \$40204J A 8 0 = 76

SAA09YE04-012

SFP Item: Hoist, Motor Brake (2 items)

Find Numbers: None

Criticality Category: 1R

SAA NO: 09YE04-012 Rev. A

System/Area: 2-Ton APU Monorail Hoists

at the Hotatiny Service Structure (RSS) Pad B, 125

Foot Level Sides 2 & 4

MASA Part No: None

Name: None Assigned

Yale Industries

Drawing/

Part No: 648631101

Sheet No:

Function: Hoist motor brake suspends the load when the hoist is deactivated.

Critical Failure Mode: Fails to set.

FMM: 09YED4-012.003

(Pad)

Failure Effect: Load will drop resulting in possible less of life or vehicle. failure to set properly would require binding of the piston. failure of enuaging springs, or excessive war or ylazing of the brake disc. Fails redundancy screen b. Requires failure of both the mechanical load brake and the motor brake to lose all control of land.

ACCEPTANCE MATIONALE

<u>Destun:</u>

- Moist motor brake is pneumatically released and reset by multiple (6) spring pressure and is self-edjusting.
- The noist motor brake torque is rated at 150% of the rated load.

Test:

- An annual operational check of the hoist is performed in accordance with file VI UMSD. Verifies mechanical load brake only.
- Load test at 100% of rated load is performed annually and verified prior to each use. Verifies mechanical load brake only.

ATTACH ENT SHOROUT RAGOF 76

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Inspection:

The motor brake is visually inspected, annually, for wear and glazing per OMI Q6326.

Failure History:

- The PRACA data base was queried, and there was no failure data found for this component in this failure mode.
- The GIDEP failure data interchange system has been researched, and no data on this component was found.

Operational Use:

- The hoists are reted at 4000 lbs. A fully loaded APU servicing cart weighs a maximum of 2400 lbs.
- These hoists are subjected to an extremely limited annual duty cycle compared to commercial use. Approximately 2 lifts per hoist per flow.